

INSTRUCTIONS FOR USE

BOND AF NANO DE

Light-curing Nano Adhesive for Enamel and Dentin

1. PRODUCT DESCRIPTION

BondAF Nano DE is a light-curing adhesive system with nanometric charge, used for adhesion of materials to the dental structure (dentin and/or enamel), being a single-bottle product (primer and adhesive together). Acid etching is the only previous step necessary before its application. BondAF Nano DE can be applied in direct or indirect processes.

2. PRESENTATION

Packaging containing 01, 02, 03, 04, 05, 06, 10 or 12 bottles;
Available in 4 ml, 5 ml, 6 ml, 7 ml, 8 ml, 9 ml or 10 ml contents.

3. COMPOSITION

Nanometric Filler, PMGDMA Bis (Glyceryl Dimethacrylate) Pyromellitate, PMDM (Pyromellitic dimethacrylate), Methacrylic Monomers, Phosphated Methacrylic Monomers, Photoinitiators, Coinitiators, Stabilizers, Water and Ethanol.

4. INDICATION OF USE

BondAF Nano DE is a 2 (two) step (acid attack and adhesion) photopolymerizable nano adhesive system, aimed at making enamel or dentin compatible, and can be applied to all classes of composite restorations, adhesive cementation and repairs ceramic and composite adhesives.

5. CONSERVATION/ STORAGE

Store at room temperature (5°C to 30°C) and away from direct sunlight. Keep the product in its packaging always closed.

6. INSTRUCTIONS FOR USE

Tooth preparation: Remove minimal tooth structure.

Use adequate insulation: the use of absolute insulation with a rubber dam is recommended. Use adequate pulp protection.

Acid etching: It is recommended that, for both direct and indirect restorations, the Phosphoric Acid Conditioner Gel Condaaf 37% AF do BRASIL is applied for 15 seconds, both on enamel and dentin surfaces, according to the type of preparation. After applying the acid, it must be removed with plenty of water. Dry the cavity, keeping the dentin hydrated, but without excess water. If it is necessary to rehydrate the dentin to apply the adhesive, use cotton balls moistened with distilled water or chlorhexidine. Rehydration of dentin also affects enamel, which can be treated using the wet technique.

When cementing prefabricated posts, apply Condaaf Gel Phosphoric Acid Conditioner 37% AF do BRASIL to the root canal and remaining structure for 15 seconds. Carefully rinse the area and remove excess water with absorbent paper cones.

Adhesive Application: After acid etching, remove excess moisture from the preparation using a cotton ball or absorbent paper. The use of compressed air is not recommended to remove excess remaining water.

For direct and indirect restorations: place the adhesive in a dappen container or directly in a disposable micro applicator. Apply two layers of adhesive to slightly damp tooth surfaces. Apply the first layer firmly, rubbing the adhesive-saturated micro applicator for 15 seconds. Then apply the second layer of adhesive for 15 seconds and use a gentle jet of air to remove the solvent. Therefore, correct photopolymerization must be carried out.

For cementing prefabricated posts: with a disposable micro applicator, apply two layers of adhesive inside the canal, rubbing it against the walls for 15 seconds. Gently remove the solvent with jets of air free of oil or water and then carry out the correct photopolymerization. Avoid excessive adhesive accumulation in the apical region when cementing posts. Excess adhesive in this area can impair solvent evaporation and compromise polymerization.

The recommended light cure time depends on the power of the light cure used. The recommended power is greater than 450 mW/cm² to guarantee the quality of polymerization and adhesion.

Direct light-cured restorations in dentin and/or enamel:

- Carry out prophylaxis on your teeth with a jet of sodium bicarbonate or use a pumice stone, preferably from the AF do BRASIL brand for guaranteed

quality.

- Before evaluating the color of your teeth, make sure they are clean and hydrated.
- If necessary, proceed with anesthesia.
- Isolate the area properly: to carry out direct restorations, use absolute or relative isolation depending on the situation. In some cases, absolute isolation is essential.
- When preparing the tooth, create the cavity with the smallest possible reduction of the tooth structure.
- Follow the specific steps for applying the adhesive as already detailed.

Cementation of indirect restorations:

- Prepare the tooth: isolate the area with absolute or relative isolation, using a lip retractor. If the preparation margin is below the gum, use an AF do Brasil gingival retractor wire to avoid contamination.
- Properly clean the preparation with a pumice stone and AF do Brasil prophylactic brush.
- The internal treatment of the prosthesis must follow the manufacturer's instructions for each type of material. Follow the manufacturer's guidelines for the cementation process.
- Follow the specific steps for applying the adhesive as already detailed.

7. CONTRAINDICATIONS

The product has methacrylate monomers that may cause allergic reactions or mild irritation in patients sensitive to these substances.

Suspend use of the product in case of allergic reactions.

8. WARNINGS

Product for professional use.

Avoid applying the product to the gums of patients who have recently undergone any type of oral surgical procedure or who have any type of gum irritation.

Incomplete polymerization of the product or excessive time may lead to mild gum irritation in some cases.

9. SPECIAL CARES

Keep the product in its original packaging and always closed.

10. PRECAUTIONS

Make sure the dentin surface is slightly shiny (moist) before applying the adhesive. However, avoid getting it wet.

The air used during the procedure must be free of oil and water.

The recommended time for photopolymerization of this product varies according to the power of the light emitted by the equipment used. A power greater than 450 mW/cm² is recommended to ensure the quality of the polymer formed and effective adhesion. Regularly check the power of light-curing equipment with a radiometer. Both the patient and the dentist must wear protective glasses when using the light-curing equipment.

Avoid applying an excessive amount of adhesive to avoid compromising the quality of adhesion and preventing aesthetic and functional problems. It is also advisable to avoid excessive air blasts to avoid air bubbles in the adhesive.

Keep the patch out of the reach of patients and children.

Use protective gloves when handling the product. If the adhesive accidentally comes into contact with your eyes or mouth tissue, rinse thoroughly with water.

Make sure to close the bottle cap tightly after use.

In deep cavities, protect the dentin-pulp complex with a lining material. Avoid using eugenol-based materials as this may result in inadequate curing of the surface. Also avoid applying high concentrations of H₂O₂, as this may affect the curing of the adhesive.

It is not necessary to shake the bottle before using the patch.

11. VALIDITY

BondAF Nano DE is valid for 24 months after the date of manufacture.